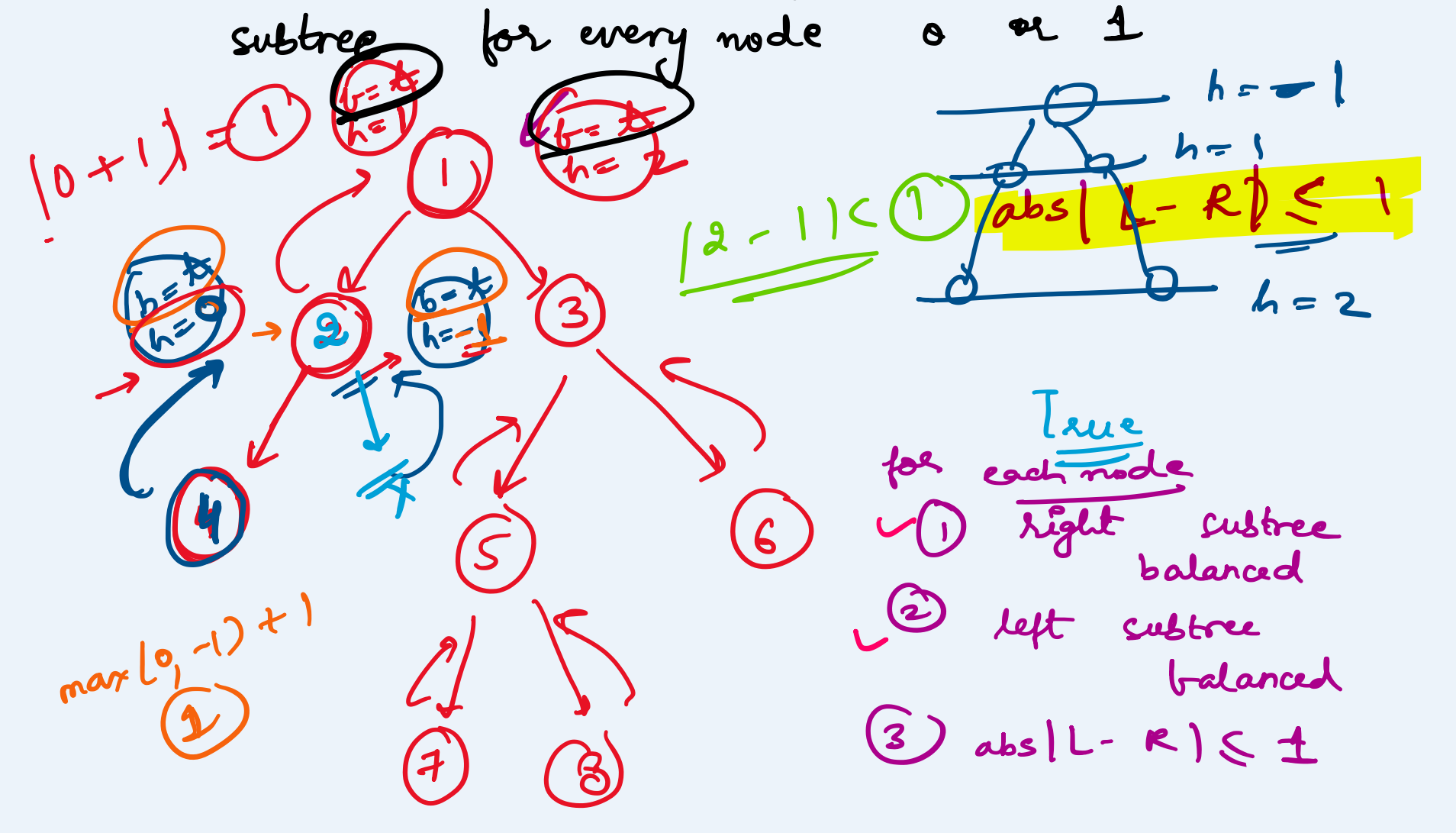
Sunday, 11 April 2021 11:19 AM

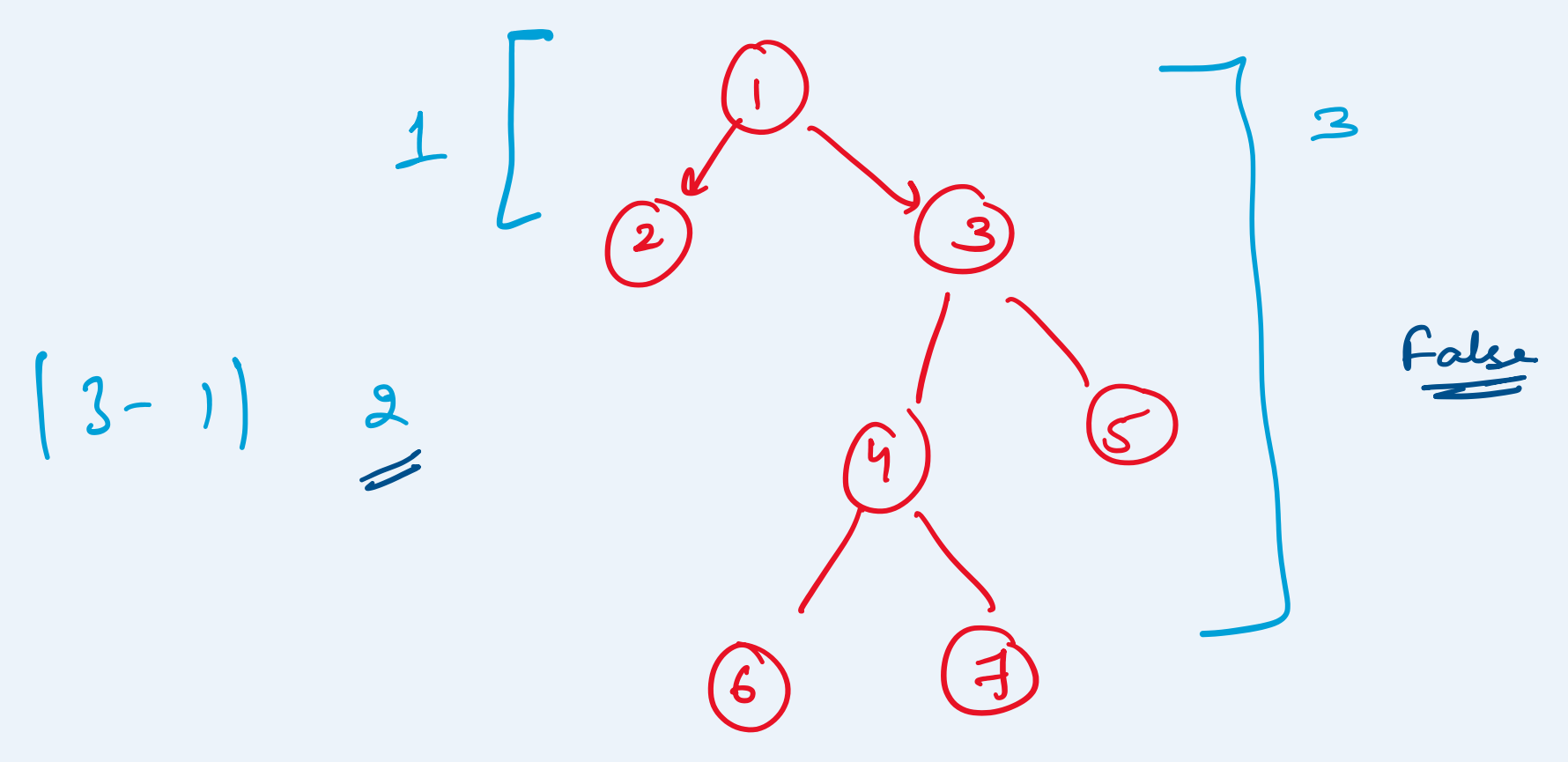
Q Given a binary tree, check if the tree is height balanced or not.

A height balanced tree has a absolute difference b/w the height of L and R subtree for every node 0 or 1

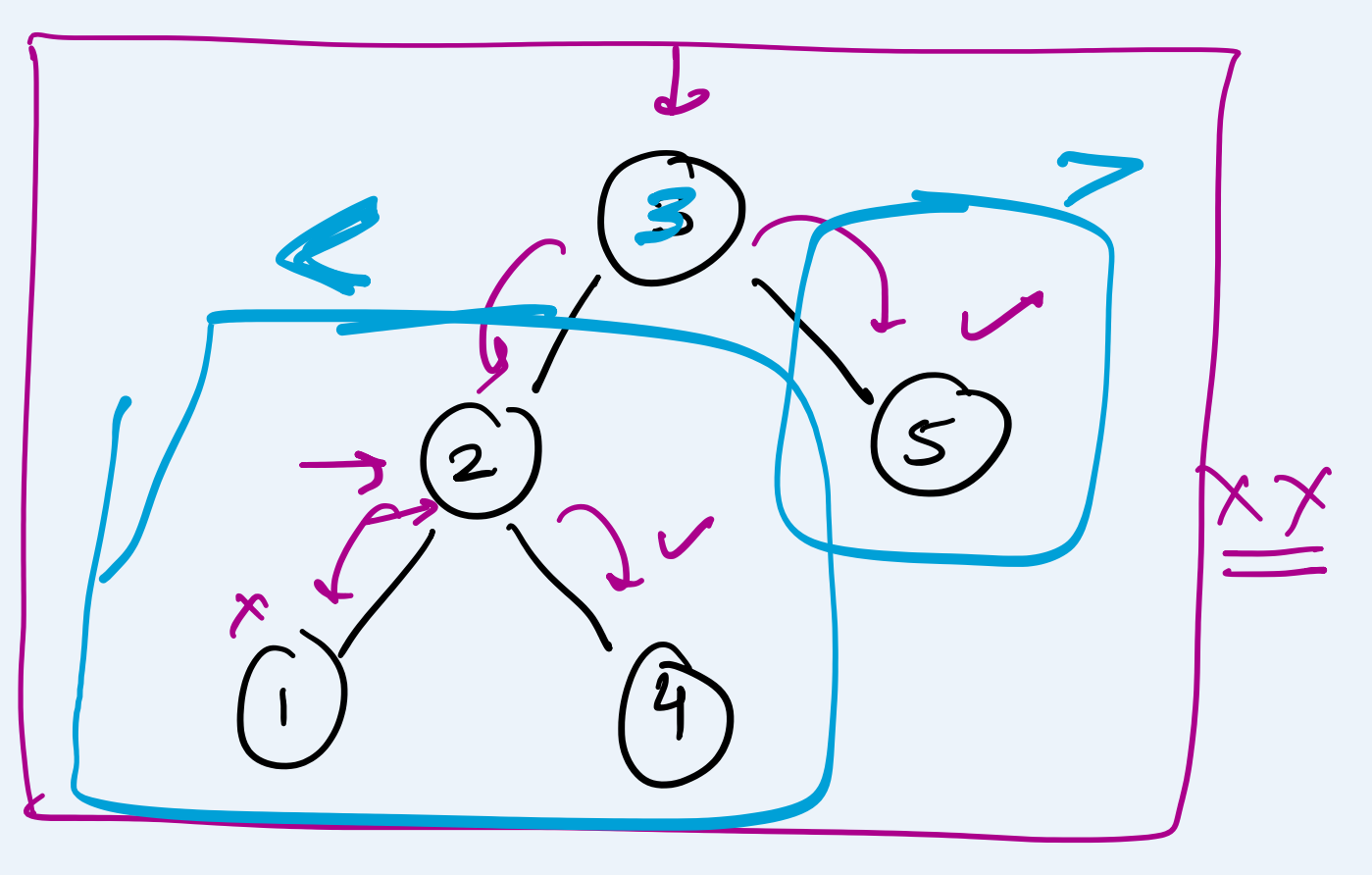


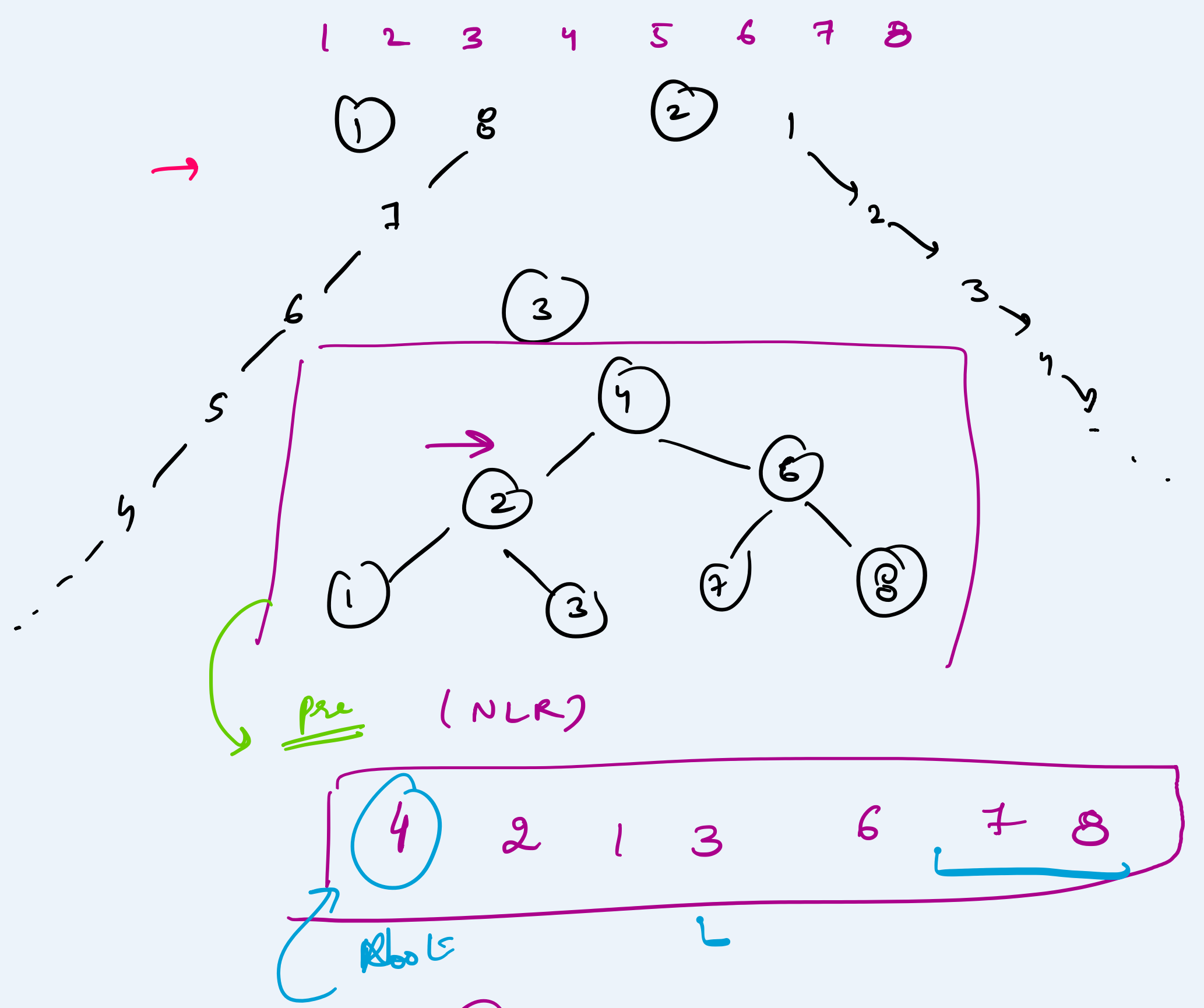
True

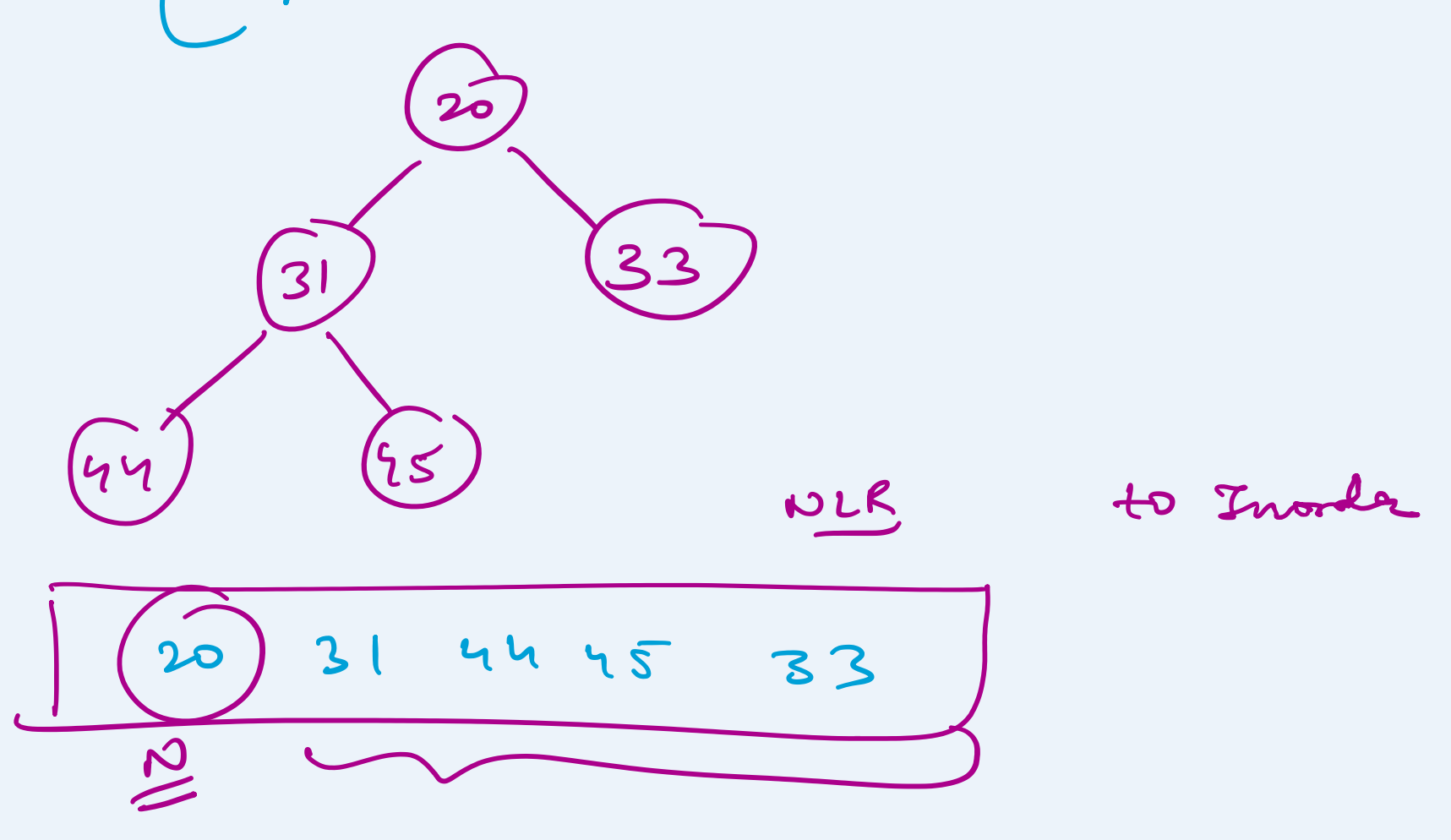
for each node
1. right subtree balanced
2. left subtree balanced
3. abs|L - R| ≤ 1



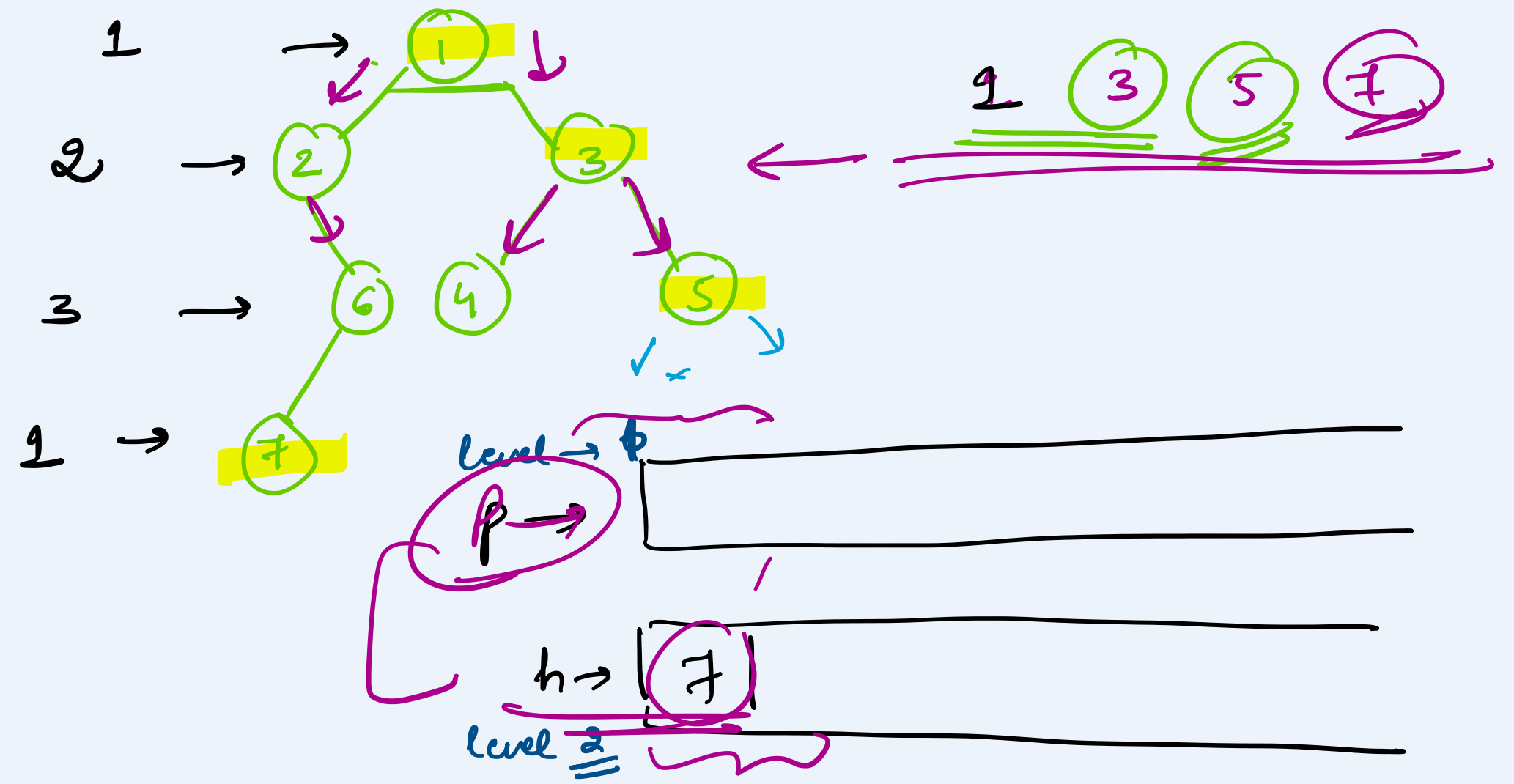
```
boolean check balanced ( root) {                $O(n^2)$

        → balanced ( root . left);
        → balanced ( root . right);

        = height ( root . left);
        = height ( root . right);
```

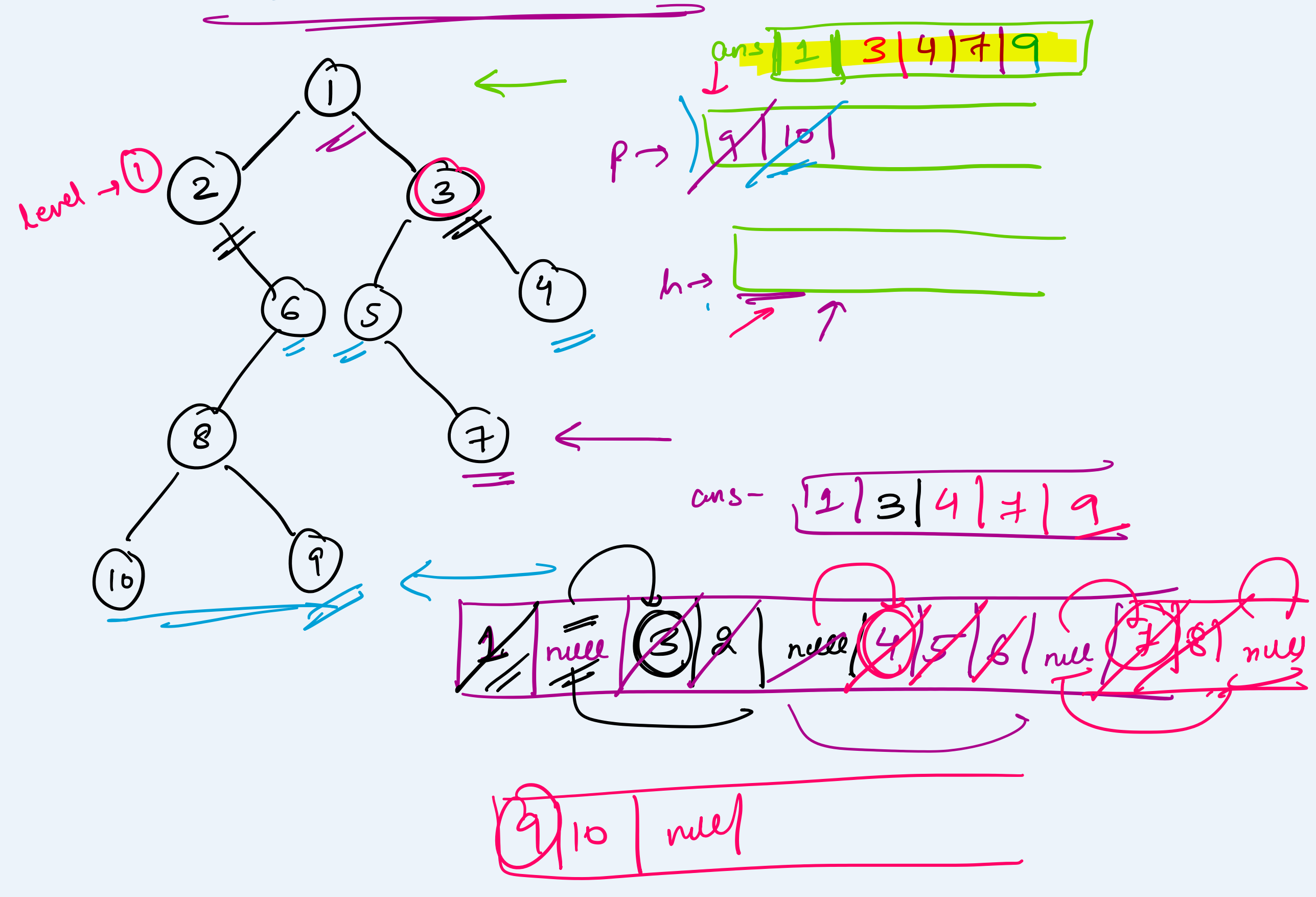






Q given a binary tree, print the right view of BT.





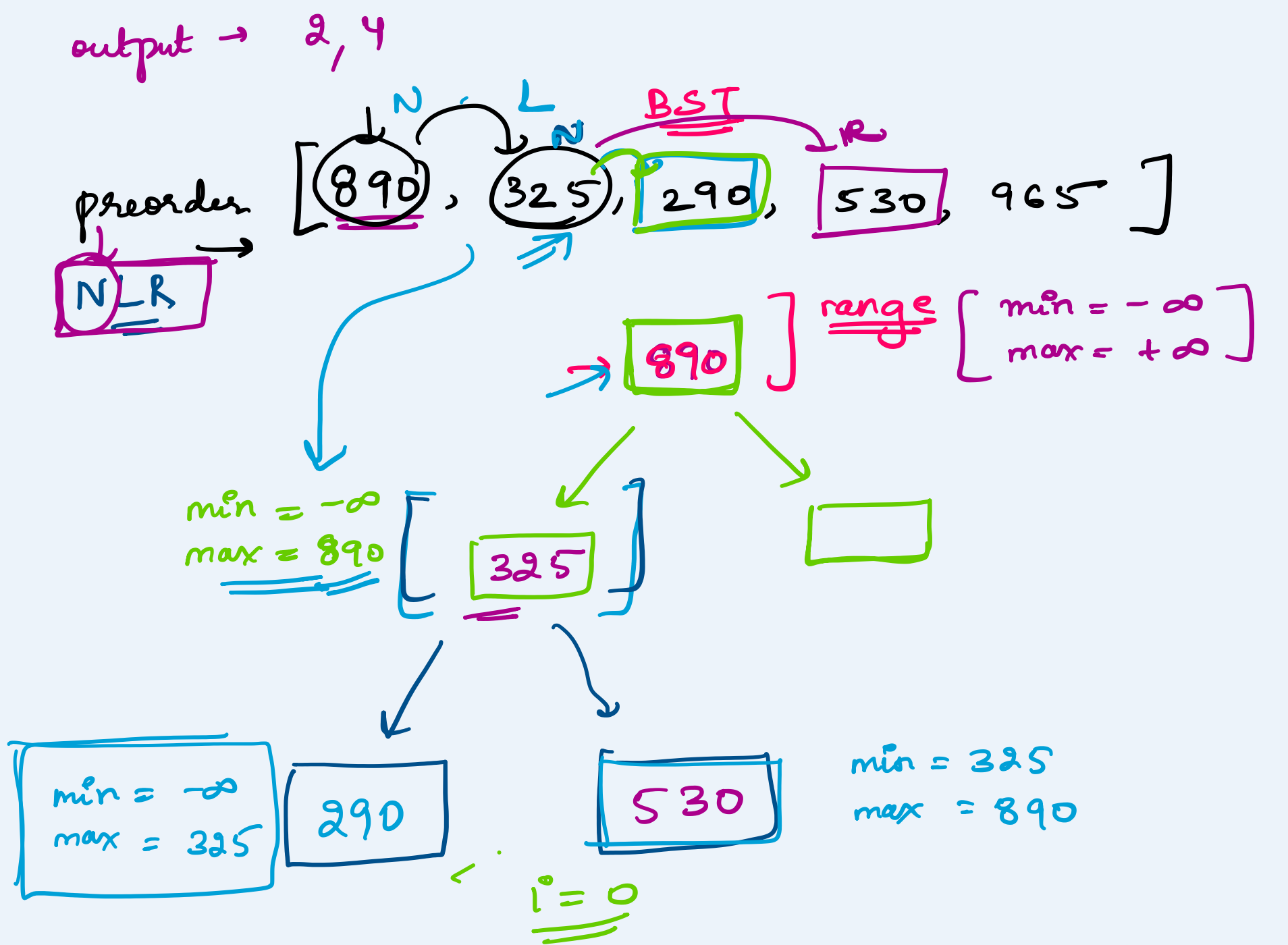
Q Given a preorder traversal of a BST, find the leaf nodes of the BST.

preorder → { 890, 325, 290, 530, 965 }

output → 290, 530, 965

preorder → { 3, 2, 4 }

output → 2, 4



```
i = 0
leaf ( pre, n, -∞, +∞) {
        if ( i >= n) false;
        if ( pre[i] > min && pre[i] < max) {
            i++;
            boolean left = leaf( pre, n, min, pre[i-1]);
            boolean right = leaf ( pre, n, pre[i-1], max);
            if ( !left && !right )
                syso ( print [i-1]);
        }
        return false;
```